

Raytheon Technical Services Company

Integrated Supply Chain – Logistics

Lance Lammott Manager III, ISC Logistics Indianapolis, IN 06/08/11





Raytheon Sustainability Vision

Our commitment to future generations

Engaging our employees, customers, suppliers and communities to protect our environment and conserve natural resources

Strategic Focus Areas:

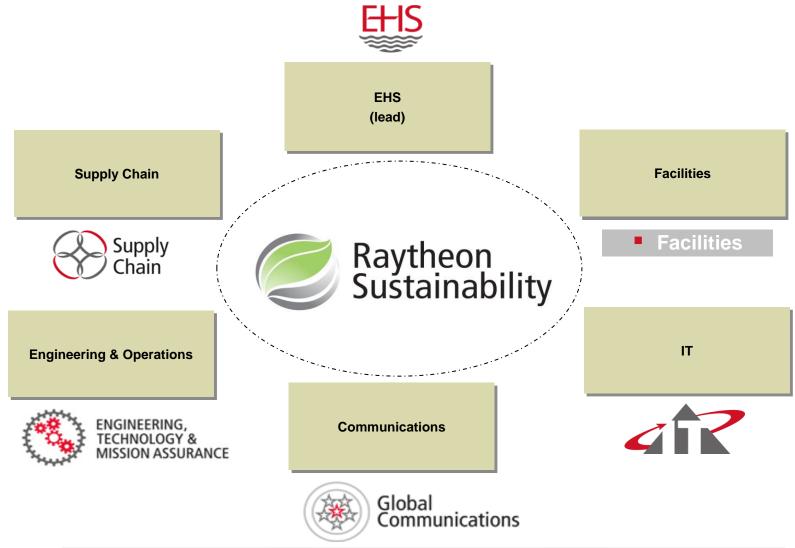
- Energy Efficiency
- Greenhouse Gas Emission Reductions
- Recycling and Waste Minimization
- Water Conservation
- Design for Sustainability
- Eco-friendly Procurement
- Innovative Environmental Solutions







Raytheon Sustainability Team





In Support of Supply Chain Sustainment Strategies



ISC Logistics

	RTSC	IDS	IIS	RMS	SAS
Returnable / Durable	Lance Lammott				
Packaging	Steve Young	Steve Klemarczyk		Jose Sanchez	Noah Villareal
Reuseable Pallets	Gary Thompson				
Supplier Packaging					
Fleet Management / GHG					Jim Dougherty
Emmissions	Steve Young	Steve Klemarczyk	Karrie Segobiano		Ed Rutter
Vehicle replacement				Carlos Huerta	
Alternative Fuels				Carlos Huerta	
Driver Training				Jim Edwards	
Recycling & Waste	Lance Lammott				Tim Hammond
Reduction	Steve Young	Tammy Enax	Karrie Segobiano	Jose Sanchez	Carol Kaplan
Packaging Reuse	Sherry Stevens				
Bio-Degradable Packaging					
ESD bag reuse					
Electronic Process /	Lance Lammott				
Automation	Steve Young	Tammy Enax	Tuan Nguyen		Belisa Johnson
Document Scanning	Jeremy Williams				



RTSC lead Business lead - Indianapolis focused team





Returnable / Durable Packaging

Future State Vision:

Leverage returnable / durable packaging within Raytheon facilities to promote a safe, clean Logistics operating model with minimal impact on the environment. Future state will include 100% returnable / durable packaging within Logistics operations, standardize packaging (pallet & ESD packaging), Supplier (inbound) returnable packaging (support with positive business case) and compliance with contractual returnable packaging requirements.

Strategic Initiative

Closed Loop Returnable Packaging

Plastics – Pallets - Metal

Supplier Inbound Returnable Packaging

Contractual Packaging Requirements

Description

Implement returnable packaging for specific programs that ship regularly between RTN sites. Utilize plastic or metal pallets (standard or custom) for internal material movement & storage.

Applicability for both Logistics & Manufacturing operations.

Leverage SEAC process to promote supplier inbound returnable packaging strategy based on positive business case.

Utilize customer furnished reusable shipping containers for storage and shipment of government assets.



RETURNABLE - DURABLE PACKAGING

Return wood pallets received with packaging supplies from local vendors for their reuse.







Utilize Reusable containers both plastic, wood and fiberboard wherever possible. Sources of containers come from unpacking incoming items or government supplier. (Jackal, Sydet, Lau)







Utilize plastic totes and handling fixtures to delivery and pick up material from local vendors that are performing machining & plating operations.







Electronic Process / Automation

Future State Vision:

Eliminate waste associated with manual paper processes and replace with electronic alternatives in support of enterprise green strategies.

Strategic Initiative

Document Scanning & Storage Solutions

Digitized Pack / Ship Instructions

Paperless Receiving Process

Description

Assess current state documentation storage practices and review requirements (Logistics)

Identify best practices for electronic scanning and storage solutions

Implement enterprise best practice

Assess current state pack ship applications and identify best practices for enterprise deployment

RayPack (RMS), RAPID (SAS), RDS (IDS)

Implement enterprise best practices

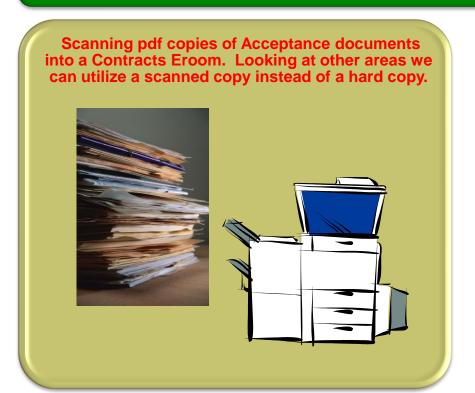
Define Paperless Process for Receiving designed to lean out paper processes

Utilize Autoidentification
Technology (AIT) that
leverages existing TMS
(2D-Bar Coding) and
material tracking
technology platforms
(including RFID
technology)





ELECTRONIC PROCESS / AUTOMATION









Recycling / Waste Reduction / Awareness

Future State Vision:

Promote and support Raytheon Recycling and Waste prevention programs within the Logistics organizations. Promote the 3Rs (Reduce, Reuse and Recycle) to reduce carbon footprint in the environment. Logistics departments will recycle 100% of all recyclable items and/or use bio-degradable items, wherever possible.

100% Recyclable Items Bio-Degradable Packaging Supplies

Reduce / Reuse

Energy Conservation

Personal Green Accountability

Cardboard

Wood

Metal

Bubble wrap

Foam

Shrink Wrap

Tape

Bubble Wrap

Reusable Packaging

Reusable Containers

Metal Pallets

Print Smart:

- Paper
- Ink
- Office Equip.

Dock Sealers

Heat & A/C Activators

Lighting & Motion Sensors

PIT Battery Technology

Energy Citizens

Awareness Campaigns

Driving
Sustainability at
Work & at Home
(Recycling,
Community
Outreach)





RECYCLE









WASTE REDUCTION









Fleet Management & GHG Emissions

Future State Vision:

Actively managed Raytheon's enterprise-wide vehicle and industrial truck fleet in support of Raytheon's goal of reducing GHG emissions by 10% between 2010 and 2015.

Fleet Rationalization Develop a
"Selector List"
of Low GHG
Vehicles

Replace
Existing
Vehicles &
Industrial
Trucks with Low
GHG Models

Implement
Preventative
Maintenance
Best Practices

Educate Drivers & Managers in "Green" Best Practices

Review current state vehicle utilization

Identify targets for GHG / Cost reduction

Obtain customer concurrence

Collaborate with vehicle and industrial truck providers

Identify lowest GHG models in each vehicle class

Update selection list annually

Review replacement opportunities

Assess customer requirements

Fleet managers and customers choose from "Selector list" All vehicles/ industrial trucks serviced per manufacturers recommendations All drivers operating RTN vehicles required to complete LMS training (annually)

Periodic communication

LMS curriculum created & updated





Logistics Sustainability – RTSC

Accomplishments and Progress

- Energy Conservation
 - Installed lock out switch for multiple doors within an area to decrease warm air flow to reach primary plant.
 - Utilize Dock door sealers, where applicable
- Clean Air
 - Central Indiana Clean Air Partnership reduce fleet idling from Transportation providers
 - Implement at Indy facility Q2 2011, may expand to other sites later

